

PENDING CLAIMS

2. A method for bonding tissue or sealing a fluid or gas leak in tissue comprising the steps of:
 - (a) applying to a tissue locus:
 - i. a protein preparation;
 - ii. at least one preparation selected from the group consisting of a surfactant preparation and a lipid preparation; and
 - iii. a crosslinker preparation; and
 - (b) permitting the preparations to form crosslinks, thereby to bond said tissue or to seal a fluid or gas leak in said tissue.
42. A kit for producing a protein-based tissue adhesive or sealant comprising:
 - (a) a protein preparation;
 - (b) a crosslinker preparation; and
 - (c) at least one preparation selected from the group consisting of a surfactant preparation and a lipid preparation.
49. The kit of claim 42, wherein the concentration of surfactant is between about 0.05% (w/w) and about 10% (w/w).
50. The kit of claim 42, wherein the surfactant is an ionic surfactant.
51. The kit of claim 50, wherein the ionic surfactant is selected from the group consisting of alkanolic acids, alkylsulfonic acids, alkyl amines, perfluoroalkanoic acids, and perfluoroalkylsulfonic acids.
56. The kit of claim 51, wherein the perfluoroalkanoic acid is perfluorooctanoic acid.

57. The kit of claim 42, wherein the surfactant is a nonionic surfactant.
58. The kit of claim 57, wherein the nonionic surfactant is selected from the group consisting of an alkyl or perfluoroalkyl- polyoxyethylene ether, a polyoxyethylene ester, a polyoxyethylene sorbitan, and an alkyl aryl polyether alcohol.
59. The kit of claim 57, wherein the alkyl aryl polyether alcohol is tyloxapol.
60. The kit of claim 42, wherein the concentration of the lipid is from about 0.1% (w/v) to about 10% (w/v).
61. The kit of claim 42, wherein the lipid is a naturally-occurring lipid.
62. The kit of claim 42, wherein the lipid is a synthetic lipid.
82. A platelet-free composition for use as a tissue sealant or adhesive comprising a protein solution and at least one preparation selected from the group consisting of a surfactant preparation and a lipid preparation.
83. The composition of claim 82 comprising a protein solution, a surfactant preparation and a lipid preparation.
84. The composition of claim 82, wherein the protein is selected from the group consisting of albumin, collagen, gelatin, globulin, elastin, protamine, and histone.
85. The composition of claim 84, wherein the concentration of the protein is between about 3% (w/w) and 50% (w/w).

86. The composition of claim 85, wherein the protein is albumin and wherein the concentration of albumin is between about 25% (w/w) and about 50% (w/w)
89. The composition of claim 82, wherein the concentration of surfactant is between about 0.05% (w/w) and about 10% (w/w).
90. The composition of claim 82, wherein the surfactant is an ionic surfactant.
97. The composition of claim 82, wherein the surfactant is a nonionic surfactant.

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